

Supporting Information

Solubility isotherms of gypsum, hemihydrate and anhydrite in the ternary systems $\text{CaSO}_4+\text{MSO}_4+\text{H}_2\text{O}$

(M = Mn, Co, Ni, Cu, Zn) at $T = (298.1 \text{ K to } 373.1) \text{ K}$

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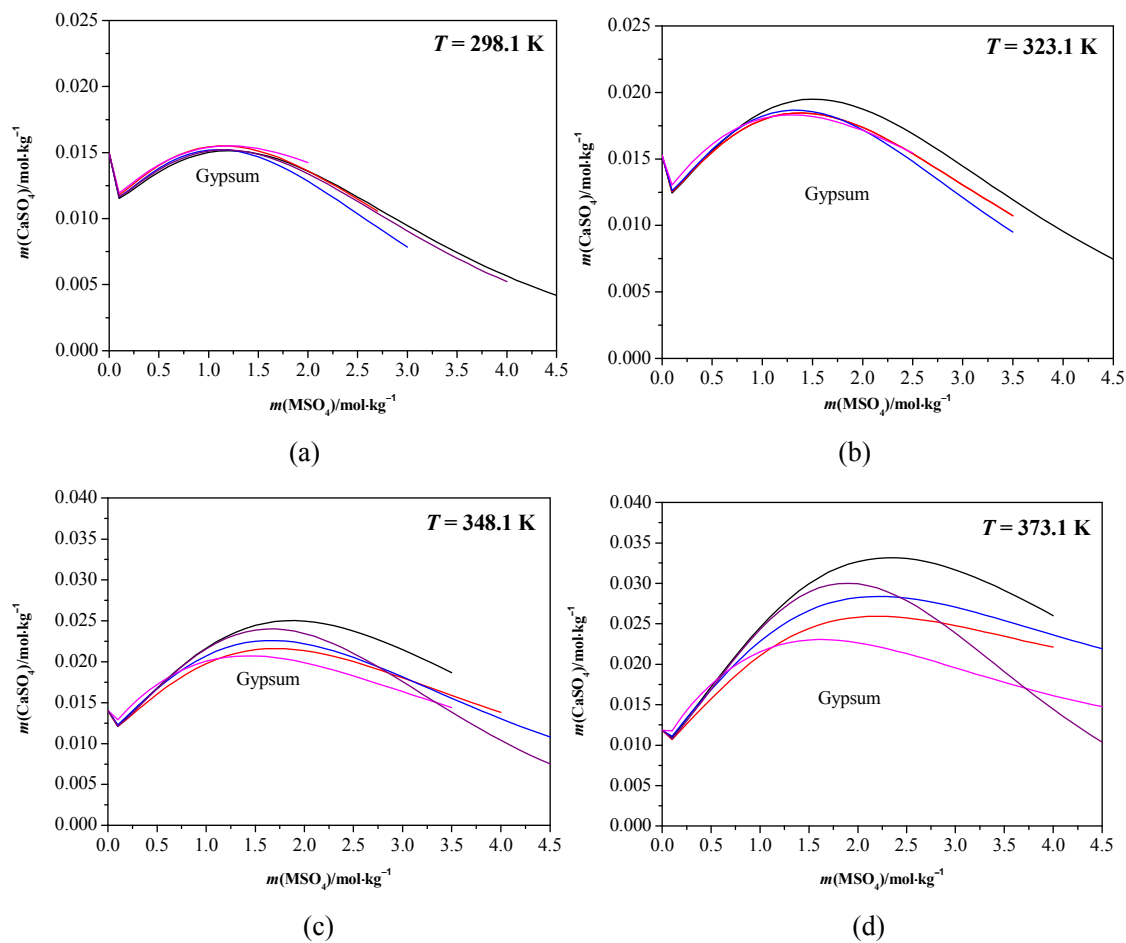


Figure S1. Predicted solubility isotherms of gypsum in the systems $\text{CaSO}_4\text{--MSO}_4\text{--H}_2\text{O}$ (M = Mn, Co, Ni, Cu, Zn). Black: Mn; Red: Co; Blue: Ni; Magenta: Cu; Purple: Zn. a: $T = 298.1\text{ K}$; b: $T = 323.1\text{ K}$; c: $T = 348.1\text{ K}$; d: $T = 373.1\text{ K}$.

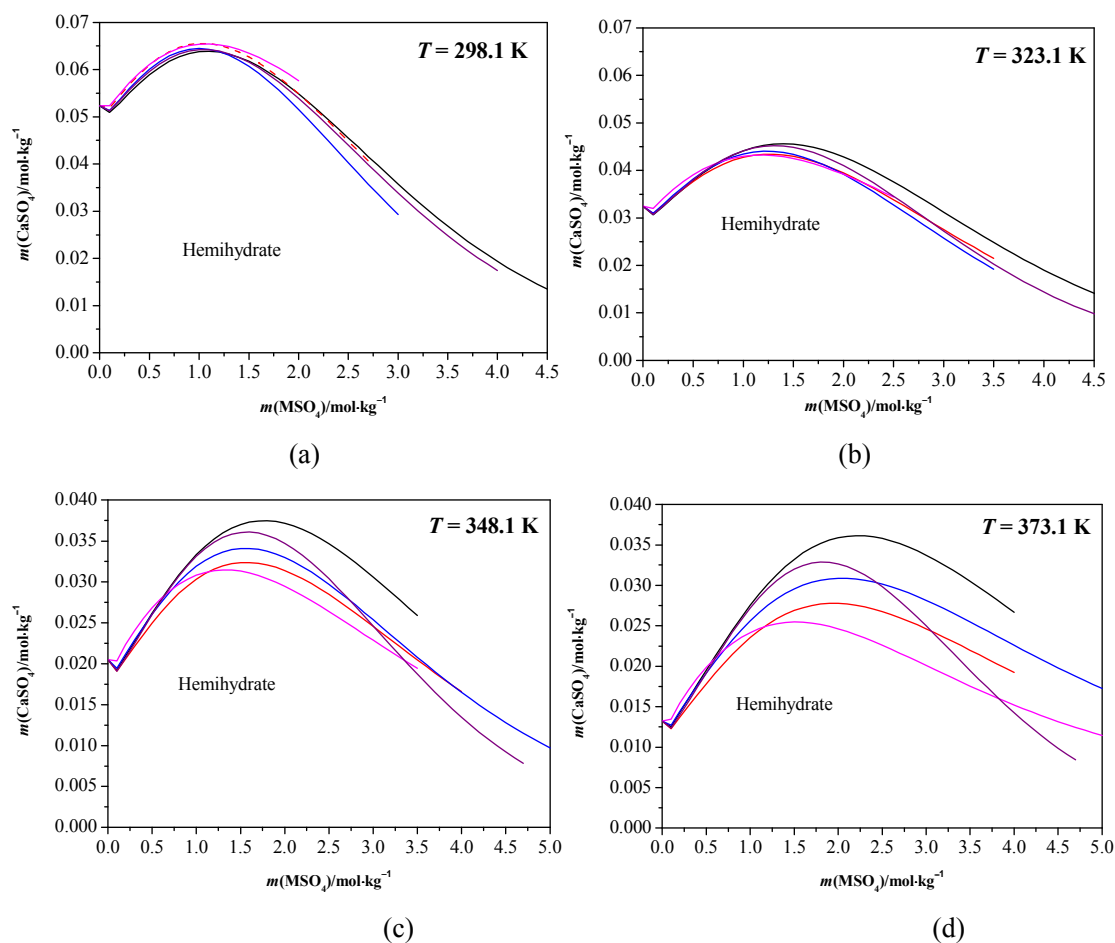


Figure S2. Predicted solubility isotherms of hemihydrate in the systems $\text{CaSO}_4\text{--MSO}_4\text{--H}_2\text{O}$ ($M = \text{Mn, Co, Ni, Cu, Zn}$). Black: Mn; Red: Co; Blue: Ni; Magenta: Cu; Purple: Zn. a: $T = 298.1 \text{ K}$; b: $T = 323.1 \text{ K}$; c: $T = 348.1 \text{ K}$; d: $T = 373.1 \text{ K}$.

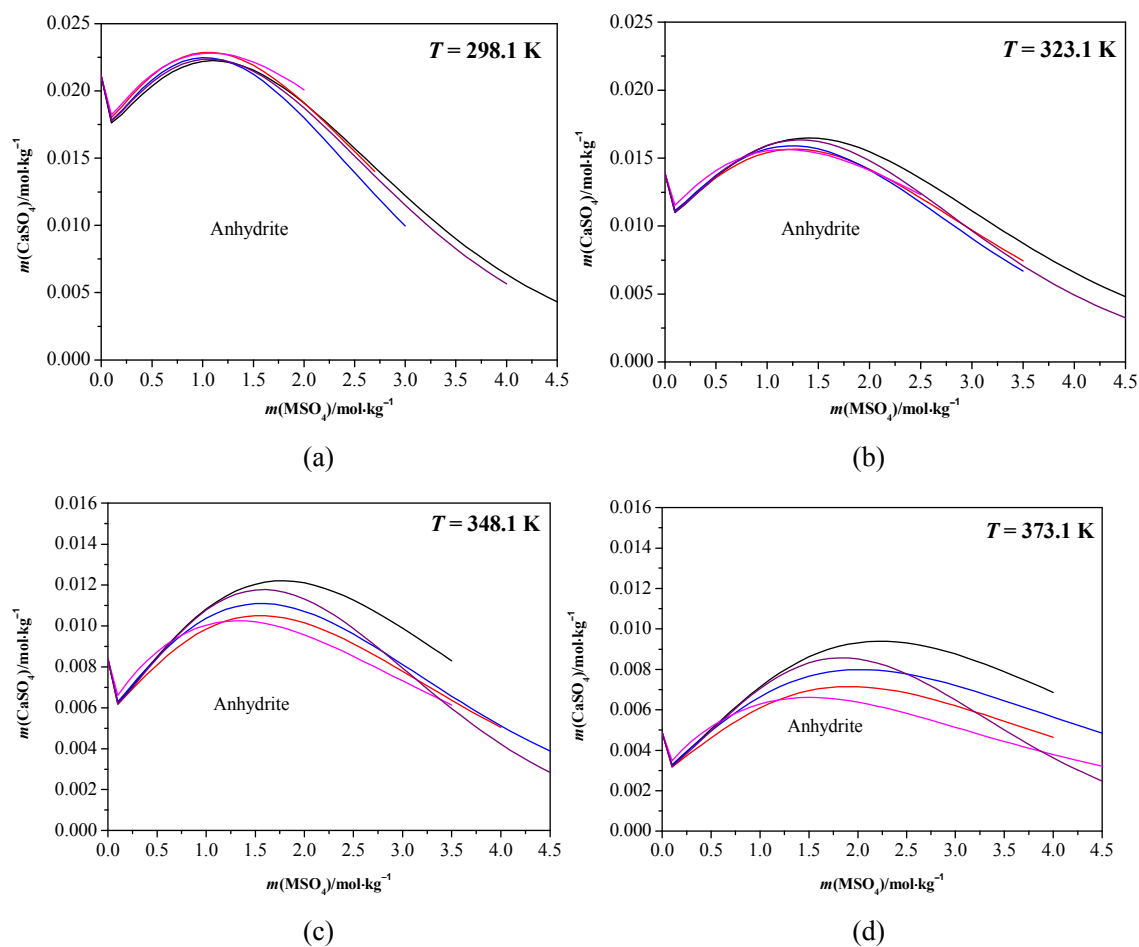


Figure S3. Predicted solubility isotherms of anhydrite in the systems $\text{CaSO}_4\text{--MSO}_4\text{--H}_2\text{O}$ ($M = \text{Mn, Co, Ni, Cu, Zn}$). Black: Mn; Red: Co; Blue: Ni; Magenta: Cu; Purple: Zn. a: $T = 298.1\text{ K}$; b: $T = 323.1\text{ K}$; c: $T = 348.1\text{ K}$; d: $T = 373.1\text{ K}$.